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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/506,078DATE: 03/08/2000
TIME: 15:24:39

Input Set: I506078.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Pfizer Products Inc
2 <120> TITLE OF INVENTION: FUSION PROTEINS COMPRISING CARRIERS THAT CAN INDUCE A
3 DUAL IMMUNE RESPONSE
4 <130> FILE REFERENCE: PC10202A
5 <140> CURRENT APPLICATION NUMBER: US/09/506,078
6 <141> CURRENT FILING DATE: 2000-02-16
7 <150> EARLIER APPLICATION NUMBER: N/A
8 <151> EARLIER FILING DATE: 1999-02-17
9 <160> NUMBER OF SEQ ID NOS: 46
10 <170> SOFTWARE: PatentIn Ver. 2.1
11 <210> SEQ ID NO 1
12 <211> LENGTH: 33
13 <212> TYPE: DNA
14 <213> ORGANISM: Artificial Sequence
15 <220> FEATURE:
16 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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18 AND CLONING ENDS
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25 <220> FEATURE:
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28 AND CLONING ENDS
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32 <211> LENGTH: 36
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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38 AND CLONING ENDS
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42 <211> LENGTH: 36
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence

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45 <220> FEATURE:
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50 gatcgcccgg acgcagacca taagaccagt gttcca 36
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53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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58 AND CLONING ENDS
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60 gatccatgga gcactgggtca tatggtctgc gtccgggtga acattggagc tacggtctac 60
61 gccccgggtc catggc 76
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63 <211> LENGTH: 76
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
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67 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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69 AND CLONING ENDS
70 <400> SEQUENCE: 6
71 tcgagccatg gacccggggc gtagaccgta gtcctaatgt tcacccggac gcagaccata 60
72 tgaccagtgc tccatg 76
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75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
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78 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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83 ggttccatgg c 71
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85 <211> LENGTH: 75
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89 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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91 AND CLONING ENDS
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93 tcgagccatg gaacctggac ggaggccgta actccaatgc tctcccgcc gtaagccata 60
94 agaccagtgt tcccc 75

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102     AND CLONING ENDS
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104     gatccagagc actggtcata tggctcgct ccgggtgaac attggagcta cggtctacgc 60
105     cccggggatc c 71
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113     AND CLONING ENDS
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116     ccagtgtct g 71
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119 <212> TYPE: DNA
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122 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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126     ggggaacact ggtcttatgg cttacggccg ggagagcatt ggagttacgg cctccgtcca 60
127     ggggatcc 68
128 <210> SEQ ID NO 12
129 <211> LENGTH: 72
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131 <213> ORGANISM: Artificial Sequence
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135     AND CLONING ENDS
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138     ccagtgttcc cc 72
139 <210> SEQ ID NO 13
140 <211> LENGTH: 10
141 <212> TYPE: PRT
142 <213> ORGANISM: GNRH AMINO ACID SEQUENCE
143 <400> SEQUENCE: 13
144     Glu His Trp Ser Tyr Gly Leu Arg Pro Gly

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145          1          5          10
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147 <211> LENGTH: 328
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence: part of
152 plasmid p9897-R
153 <400> SEQUENCE: 14
154   acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgagcg cgcgtaatac 60
155   gactcactat agggcgaatt ggagctccac cgcggtggcg gccgctctag aactagtgga 120
156   tccagagcac tggtcataat gctcgcgtcc gggatgaacat tggagctacg gtctacgccc 180
157   cggggaacac tggctcttat gcttacggcc gggagagcat tggagttacg gcctccgtcc 240
158   aggttccatg ggctcgaggg ggggcccggg acccagcttt tgttcccttt agtgagggtt 300
159   aattgcgcgc ttggcgtaat atggtcat                               328
160 <210> SEQ ID NO 15
161 <211> LENGTH: 40
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: GnRH tetramer
166 <400> SEQUENCE: 15
167   Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His Trp Ser Tyr Gly
168       1          5          10          15
169   Leu Arg Pro Gly Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His
170           20          25          30
171   Trp Ser Tyr Gly Leu Arg Pro Gly
172           35          40
173 <210> SEQ ID NO 16
174 <211> LENGTH: 1259
175 <212> TYPE: DNA
176 <213> ORGANISM: Bovine herpesvirus 1
177 <220> FEATURE:
178 <221> NAME/KEY: gene
179 <222> LOCATION: (1)..(1259)
180 <223> OTHER INFORMATION: sequence encoding BHV-1 gD from clone
181 FlgD/Pots207(#79)
182 <400> SEQUENCE: 16
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184   ctacacccgc gccgcgggtg acggtatacg tcgaccgcgc gccgtaccgc atgccgcgat 120
185   acaactacac tgaacgctgg cacactaccg ggccataacc gtcgcccttc gcagacggcc 180
186   gcgagcagcc cgtcgagggt cgctacgcga cgagcgcggc gccgtgcgac atgctggcgc 240
187   tgatcgacga cccgcagggt gggcgcacgc tgtgggaagc ggtacgccgg cagcgcgcgc 300
188   cgtacaacgc caccggtcata tggtaacaag tcgagagcgg gtgcgcccgc ctgctgtact 360
189   acatggagta caccgagtg cagcccagga agcactttgg gtactgccgc taccgcacac 420
190   ccccgctttg ggacagcttc ctggcgggct tcgcctaccc caccgacgac gagctggggc 480
191   tgattatggc ggcgcccgcg cggctcgtcg agggccagta ccgacgcgcg ctgtacatcg 540
192   acggcacggg gcctataaca gatttcattg ttctcgtgcc ggccggggac tgctggttct 600
193   cgaaactcgg gcgcgctcgc gggtagacct ttggcgcgtg cttccgggcc cgggattacg 660
194   agcaaaagaa ggttctgcgc ctgacgtatc tcacgcagta ctaccgcgag gaggcacaca 720

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196      agtcgaaggg ctacgagccg ccgcctgccg ccgatggggg ttccccgcgcg ccaccgcgcg 840
197      acgacgaggg ccgcgaggat gaaggggaga ccgaggacgg ggcagccggg cgggagggca 900
198      acggcggccc cccaggaccc gaaggcgacg gcgagagtca gacccccgaa gccaacggag 960
199      gcgccgaggg cgagccgaaa cccggcccca gcccgcacgc cgaccgcccc gaaggctggc 1020
200      cgagcctcga agccatcacg cccccccgc ccgccccgcg tacgcccgcg cgagctccgg 1080
201      acgctgtttc ggtttctggt ggtatcggtg tcgctgctgc tgctatcgct tgcgttgctg 1140
202      ctgctgctgc tgggtgcttac ttcgtttata ttcgctcgctg tgggtgctggg ccgctgcccgc 1200
203      gtaaaccgaa aaaactgccg gctttcggtg acgttaacta cagtgtctctg ccgggttga 1259
204      <210> SEQ ID NO 17
205      <211> LENGTH: 418
206      <212> TYPE: PRT
207      <213> ORGANISM: Bovine herpesvirus 1
208      <220> FEATURE:
209      <221> NAME/KEY: PEPTIDE
210      <222> LOCATION: (1)..(418)
211      <223> OTHER INFORMATION: BHV-1gD encoded by clone FlgD/Pots207nco(#79)
212      <400> SEQUENCE: 17
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214      1 5 10 15
215      Val Ser Leu Pro Thr Pro Ala Pro Arg Val Thr Val Tyr Val Asp Pro
216      20 25 30
217      Pro Ala Tyr Pro Met Pro Arg Tyr Asn Tyr Thr Glu Arg Trp His Thr
218      35 40 45
219      Thr Gly Pro Ile Pro Ser Pro Phe Ala Asp Gly Arg Glu Gln Pro Val
220      50 55 60
221      Glu Val Arg Tyr Ala Thr Ser Ala Ala Ala Cys Asp Met Leu Ala Leu
222      65 70 75 80
223      Ile Ala Asp Pro Gln Val Gly Arg Thr Leu Trp Glu Ala Val Arg Arg
224      85 90 95
225      His Ala Arg Ala Tyr Asn Ala Thr Val Ile Trp Tyr Lys Ile Glu Ser
226      100 105 110
227      Gly Cys Ala Arg Pro Leu Tyr Tyr Met Glu Tyr Thr Glu Cys Glu Pro
228      115 120 125
229      Arg Lys His Phe Gly Tyr Cys Arg Tyr Arg Thr Pro Phe Trp Asp
230      130 135 140
231      Ser Phe Leu Ala Gly Phe Ala Tyr Pro Thr Asp Asp Glu Leu Gly Leu
232      145 150 155 160
233      Ile Met Ala Ala Pro Ala Arg Leu Val Glu Gly Gln Tyr Arg Arg Ala
234      165 170 175
235      Leu Tyr Ile Asp Gly Thr Val Ala Tyr Thr Asp Phe Met Val Ser Leu
236      180 185 190
237      Pro Ala Gly Asp Cys Trp Phe Ser Lys Leu Gly Ala Ala Arg Gly Tyr
238      195 200 205
239      Thr Phe Gly Ala Cys Phe Pro Ala Arg Asp Tyr Glu Gln Lys Lys Val
240      210 215 220
241      Leu Arg Leu Thr Tyr Leu Thr Gln Tyr Tyr Pro Gln Glu Ala His Lys
242      225 230 235 240
243      Ala Ile Val Asp Tyr Trp Phe Met Arg His Gly Gly Val Val Pro Pro
244      245 250 255

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Please Note:

Please ensure that all subsequent artificial/unknown sequences have a suitable explanation in the
<220> - <223> section.

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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text
